

Fermi National Accelerator Laboratory Technical Division-Machine Shop

Welder Performance Qualification Record

Welder's Name		William Gatfield				FNAL#		04609N		ASME # W-12					
Welding Process: 1st				GTAW Type		Manual		2nd					Type		
Performed in			1				F	ermi W	PS-SS-	8-001					
1 chormed in	decordance	O WILLIA													
Joint:	Fillet:	les de la companya de	rong Char			Production W	leld		7	Test Cou					
Groove: Double Welded:			Yes	No	With Solid I	olid Backing W				Vithout Solid Backing					
Square Butt Groove			Metal Fused		T	Metal Non Fused Non			Metal	Open/closed Root			Consumable Insert		
	bquare B	att Groove	11100												
D 3/1/1	Specific	action:	EA 240	Туре 304		ΓΟ SA 2-	40 Ti	уре 304	I A	SME P	#8, Gp 1	TO	ASME	P # 8, Gp 1	
Base Metal:	Plate	cation.	1	Pipe				, , ,				7	lube		
A . 1 TPL ! -1	No	fominal Diameter: Actual Diameter					Overall Diameter:								
Tietadi Tiiletalees, etel				/Schedule:		Thickness Range				Wall:					
Quantited Italiget Store I				tual		ameter Range:			Qualified Thickness Range:						
A STATE OF THE STA				ickness	meter range.										
0 1'C 1D'								Qualified Diameter Range:							
Qualified Di	ameter Ran	ge: 2.875"Ø	1VI IIIIIII	ım											
2/			a st	70							2nd D.	rocas	C		
Filler:				t Process					2 nd Process Specification: Class:						
	Specification: 5.9			Class: 308/308L				Specification:			Ciass:				
I	Diameter(s): .035" & 1/16"							Diameter(s):							
	F#: 6								F #: Deposit Thickness:			Range Qualification:			
I	Deposit Thi	ckness: 0.03	5	Range Qua	alific	ation: 0.070 M	<i>laxim</i>	um	Depos	sit Thick	ness:	Range	3 Quan	ilication.	
•		· .													
Welding Po		1G		rtical: Flat							00.00				
Gas (Type	& Composi	ition:		ding: Argon				ot Side I	Backing	g - Arg	on 99.9%	D 1 '			
	Electrical Characteristics Type					Current AC DCEP							-Pulsing Short Circuit		
			Trans	fer GMAW		Spray	- 4	Globula	H	Puls	se	1	Snort C	-Heun	
						Visual Inspe					3.7	¥ 7*	11	01	
Appearance	e: Sati	isfactory	Under	cut: 1	Vone	Visually Obse	erved		Piping	Porosity	: No	one Vis	sually (Observed	
		Guided Bend Test QW 462								D 1					
Tensile Fracture/Res			esults	s Type and Figure			Results			Type and Figur					
001 Cross Weld		Haz/Duc	Haz/Ductile		003 Face Bend		Pass				Root Bend		Pass		
		Weld Du			Face	Face Bend		Pass		006 Root Bend		l	Pass		
	Test Conducted by:						Reference #: T914242						Date: 1	12/07/2009	
7000 00000															
						Radiographi	c Tes	t							
Results: Sa	tisfactory							ME IX-							
Radiograph				Exami	-	Register #			ster#	Date			3:		
Radiograph															
					Fil	llet Weld Tes	t Resi	ults							
Fracture Te	et·														
Tracture re	·31.			(Location, N	lature	, and size of Cr	ack or	Tear in	Specime	en)					
Length of V	Weld:			Length						Percer	t of Defect				
Macro Test															
Appearance		a	incl	h X		inch				Convex			Conc	ave	
Test Condu		<u> </u>	1110	1 12			ab Tes	st #:							
1est Condu	icica by.				Α.										
Test Verified	l hv	1.1.1	- P		1					. 1					
Mike Reyno	olds 039931	VIM VIV	10	Kin M	1/2		1	/erifica	tion Re	port #11	272009-1-F	RH	11	1/27/2009	
TILLING INC YILL	007731	-	Sign	,											
				N 1											
We certify	that the stat	tements in this	record	are correct	and t	hat the test we	elds w	ere pre	pared, v	velded, a	and tested in	n accoi	dance	with the	
		AE IX-2007		1	Tern	ni National	Acc	elerat	or Lal	borator	'y				
By: Roger H				1	J111				,		Date:				
by: Roger H	mer 00302IN		(11)	1:00 -								12	2/7/20)09	
		Joga	-UK	Way/		-4:									
			Au	thorized Repr	esent	ative									